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a second gene expressible in said at least one plant cell, said second gene, when expressed in said at least one plant cell, conferring a non-naturally occurring trait of interest on said at least one plant cell;

regenerating the at least one plant cell to at least one whole plant; and

applying a chemical agent to said at least one whole plant, said chemical agent being configured to be converted into a phytotoxic agent of said at least one whole plant by one or more gene products of said conditionally lethal gene.

- 80. (Amended) The method of claim 79, wherein said applying said chemical agent comprises applying said chemical agent in an amount selected to effect a sub-lethal level of said phytotoxic agent in said at least one whole plant upon said conversion by said one or more gene products of said conditionally lethal gene.
- 81. (Amended) The method of claim 80, further comprising visually identifying a sub-lethal phenotype of said at least one whole plant.
- 82. (Amended) The method of claim 79, wherein the genetic construct comprises oncogene 2 as the conditionally lethal gene, and wherein the chemical agent comprises an indoleamide or a related derivative.
- 83. (Amended) The method of claim 82, wherein the indoleamide is naphthalene acetamide.
- 84. (Amended) The method of claim 79, wherein the at least one whole plant is a variety of Brassica.
- 85. (Amended) The method of claim 84, wherein said second gene confers upon said variety of Brassica a high oleic, low linoleic acid genotype.
- 86. (Amended) The method of claim 85, wherein the variety of Brassica plant is variety AG-019 or derivatives thereof.
- 87. (Amended) A method for selecting a germinating seed or plant embryo comprising oncogene 2 as a transgene, comprising:

providing at least one transgenic plant cell of a plant seed or plant embryo, said at least one transgenic plant cell including oncogene 2 as a transgene;

culturing the at least one transgenic plant cell on a medium comprising an indoleamide or a related derivative; and

visually identifying the at least one transgenic plant cell by its expression of an auxin-overproduction phenotype.

88. (Amended) The method of claim 87, wherein said medium further comprises an auxin transport inhibitor.



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- 89. (Amended) The method of claim 88, wherein the auxin transport inhibitor is selected from the group consisting of N-(1-naphthyl)phthalamic acid, 2,3,5-triiodobenzoic acid, 9-hydroxyfluorene-9-carboxylic acid, erythrosine, eosine, fluorescein, semicarbazone, and ethanphon.
- 90 (Amended) The method of claim 87, wherein the indoleamide is naphthalene acetamide and the auxin transport inhibitor is naphthylphthalamic acid.
- 91. (Amended) The method of claim 87, wherein the at least one plant cell comprises a seed or a plant embryo.
- 92. (Amended) The method of claim 87, wherein the at least one plant cell is derived from a variety of Brassica.
- 93. (Amended) The method of claim 92, wherein the variety of Brassica is a variety having a high oleic acid, low linoleic acid profile.
- 94. (Amended) The method of claim 92, wherein the variety of Brassica is variety AG-019 or derivatives thereof.
- 95. (Amended) The method of claim 87, further comprising transferring the at least one transgenic plant cell to a second medium free from indoleamide and recovering the at least one transgenic plant cell.
- 96. (Amended) The method of claim 95, wherein the second medium comprises naphthalene acetic acid.
- 97. (Amended) The method of claim 87, further comprising transforming at least one plant cell with oncogene 2 to obtain said at least one transgenic plant cell.
- 98. (Amended) A method for producing a transgenic plant comprising oncogene 2 as a transgene, comprising:

providing at least one transgenic plant cell of a plant seed or plant embryo, said at least one transgenic plant cell including oncogene 2 as a transgene;

culturing the at least one transgenic plant cell on a medium comprising naphthalene acetamide and an auxin transport inhibitor;

visually identifying the at least one transgenic plant cell by its expression of an auxin-overproduction phenotype; and

transferring the at least one transgenic plant cell to a second medium comprising naphthalene acetic acid to recover the at least one transgenic plant cell.

